Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 04/07/15

WATER SOURCE HEAT PUMP AIR HANDLER SCHEDULE

MARK	MANUFACTURER	MODEL #	ORIENTATION	AREA SERVED	SA CFM	OUTSIDE AIR (CFM) THROUGH UNIT	OUTSIDE AIR (CFM) DIRECT TO SPACE	O.A. DUCT SIZE	ESP (IN. W.C.)	COOLING EAT (DB/WB)	COOLING EWT (F)	COOLING SHC	COOLING THC (MBH)	HEATING EWT (F)	HEATING EAT (F)	HEATING LAT (F)	HEATING THC (MBH)	COIL WATER SIDE FLOW (GPM)	COIL WATER SIDE PD (FT HD)	VOLTAGE/ PHASE	MCA	MOCP	NOTES/ ACCESSORIES
HP1	FHP	EC012	HORIZONTAL	ROOM 232	372	40	-	4"	0.5	75/63	90	7.5	9.6	85	70.0	-	17.1	3.0	11.0	208/1	7.3	15	2,3,4,5,8
HP2	FHP	EC012	HORIZONTAL	ROOM 230	372	40	-	4"	0.5	75/63	90	7.5	9.6	85	70.0	-	17.1	3.0	11.0	208/1	7.3	15	2,3,4,5,8
HP3	FHP	EC012	HORIZONTAL	ROOM 228	372	40	-	4"	0.5	75/63	90	7.5	9.6	85	70.0	-	17.1	3.0	11.0	208/1	7.3	15	2,3,4,5,8

GENERAL NOTES:
1. CAPACITY/COIL FLUID BASED ON A 20 % PROPYLENE HEAT TRANSFER MIXTURE.

NOTES/ACCESSORIES:
1. VIBRATION ISOLATING HANGERS
2. 2-WAY VALVE CONTROL VALVE PACKAGE WITH FLEXIBLE STAINLESS STEEL HOSE CONNECTIONS AND CIRCUIT SETTER. REFER TO SCHEDULE FOR BOXES REQUIRING 3-WAY VALVES.
3. SPACE TEMPERATURE SENSOR WITH SETPOINT ADJUSTMENT, REFER TO TEMPERATURE CONTROL SPECIFICATIONS
4. FACTORY CONDENSATE OVERFLOW SWITCH
5. 24V ELECTRONIC CONTROLS FOR INTERFACE WITH CONTROL SYSTEM. REFER TO TEMPERATURE CONTROL SPECIFICATIONS
6. AUXILIARY DRAIN PAN WITH MOISTURE SENSOR
7. PROVIDE CONDENSATE REMOVAL PUMP POWERED FROM UNIT EQUIVALENT TO LITTLE GIANT MODEL VCC-20ULS WITH 0.5" RIGID PIPE CONNECTION.
8. SOME UNITS ARE SHOWN OFFSET FOR CLARITY ON PLANS. COORDINATE TO PROVIDE SERVICE CLEARANCES AS REQUIRED BY CODE AND RECOMMENDED BY MANUFACTURER.

FAN SCHEDULE

MARK	MANUFACTURER	MODEL #	CFM	ESP (IN. W.C.)	MOUNTING	FINISH	DAMPER	VOLTAGE/ PHASE	MOTOR HP/WATTS	NOTES
EF1	BROAN	RDH-HD50RDF	40	0.3	CEILING	WHITE	GBD	120/1	50 W	1,2

NOTES:
1. PROVIDE WALL CAP TO MATCH EXTERIOR OF FBUILDING.
2. PROVIDE DISCONNECTING MEANS.

AIR DEVICE SCHEDULE

MARK	MANUFACTURER	MODEL #	DUCT CONNECTION SIZE	SERVICE	MODULE SIZE	FRAME	FINISH	DAMPER	MAX. NC	DELTA P (STATIC)	NOTES
S1	HART&COOLEY	661	12x12: 0-400CFM	SUPPLY	-	SURFACE	WHITE	OBD	30	0.08"	1,2,3,4
R1	HART&COOLEY	94AHOV	12x12: 0-400 CFM	RETURN	-	SURFACE	WHITE	-	-	0.05"	1,3,4

NOTES:
1. GRILLE/DIFFUSER NECK SHALL BE SAME SIZE AS BRANCH DUCTWORK UNLESS NOTED OTHERWISE ON PLAN.
2. COORDINATE TO PROVIDE INTERNALLY LINED FACTORY OR FIELD INSTALLED PLENUM ON BACK OF DIFFUSER WITH ROUND DUCT TAP.
3. GRILLE/DIFFUSER SHALL MATCH ADJACENT FINISHES UNLESS NOTED OTHERSWISE. COORDINATE TO PAINT DIFFUSER AS REQUIRED.
4. PROVIDE GRILLE/DIFFUSER WITH FACTORY COORDINATED OR INSTALLED CEILING RADIATION TYPE FIRE DAMPER.

PLUMBING FIXTURE & EQUIPMENT SCHEDULE

MARK	DESCRIPTION	MANUF.	MODEL #	DESCRIPTION / ACCESSORIES	PIPING CONNECTION SIZES COLD	HOT	DRAIN	VENT	NOTES & ACCESSORIES	EQUIVALENT MANUFACTURERS
BT1	GUESTROOM BATHTUB	AMERICAN STANDARD	2390.202.020	AMERICAN STANDARD R120SS VALVE, T385.501.WDXH.002 AND 8888.055.002 BATH/SHOWER TRIM KIT LESS SHOWERHEAD, 1660.717.002 1.5/2.0 GPM SHOWER HEAD, AND 1545.170.002 BATH WASTE TRIM	0.5"	0.5"	2"	SEE PLAN	7,8,9,10	KOHLER, MOEN
LV1	GUESTROOM UNDERCOUNTER LAVATORY	STERLING	442040	WHITE IN COLOR. AMERICAN STANDARD 2064.131.002 POLISHED CHROME SINGLE LEVER HANDLE FAUCET WITH 0.5 GPM AERATOR.	0.5"	0.5"	2"	1.5"	1,2,3,4,6	KOHLER
WC1	TANK TYPE ADA WATER CLOSET	AMERICAN STANDARD	211A.104/105	WHITE, VITREOUS CHINA, 1.28 GPF, 5324.019.020 SEAT	0.5"	-	4"	2"	5,6	KOHLER, TOTO, GERBER

NOTES:
1. PROVIDE TRUEBRO HANDI-LAV-GUARD INSULATION KIT. COLOR SHALL BE SELECTED BY THE ARCHITECT.
2. PROVIDE 17 GA. CHROME PLATED BRASS WASTE, TAILPIECE AND P-TRAP. PROVIDE PLATED ESCUTCHEONS AT WALL PENETRATIONS.
3. PROVIDE STAINLESS STEEL GRID STRAINER.
4. PROVIDE SINK WITH FAUCET HOLE DRILLING TO MATCH FAUCET.
5. PROVIDE WITH ALTERNATE TANK AS REQUIRED FOR INSTALLATION WITH FLUSH LEVER ON OPEN SIDE OF FIXTURE FOR ADA COMPLIANCE.
6. INSTALL ACCESSORIES AS RECOMMENDED BY MANUFACTURER FOR ADA COMPLIANCE.
7. PROVIDE PROTECTION FOR FIXTURE DURING CONSTRUCTION. UNITS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR.
8. PROVIDE RIGHT OR LEFT HAND CONFIGURATION AS REQUIRED BY PLAN. REFER TO ARCHITECTURAL DRAWINGS.
9. REFER TO ARCHITECTURAL DRAWINGS FOR FOLD-DOWN SEAT, GRAB BARS, SHOWER HEAD/CONTROLS LOCATIONS AND ALL OTHER ADA EQUIPMENT SPECIFICATIONS REQUIRED.

NOTE: VERIFY ALL PLUMBING FIXTURE SELECTIONS AND REQUIREMENTS PRIOR TO ORDERING.

PIPING MATERIAL SCHEDULE

SYSTEM	PIPING SIZE	PIPING TYPE	PIPING SCHEDULE	PIPING GRADE	PIPING ASTM	PIPING MATERIAL	FITTINGS MATERIAL	FITTINGS TYPE	MAXIMUM WORKING PRESSURE (PSI)	MAXIMUM WORKING TEMP (DEG. F)	FIELD TEST PRESSURE (PSI)	FIELD TEST TIME (HOURS)	NOTES
DOMESTIC WATER ABOVE GRADE (WITHIN GUEST-ROOMS ONLY)	0.5"-0.75"	PEX	-	-	F877	PEX	BRONZE	MJ	120	40-180	150	1	-
DOMESTIC WATER ABOVE GRADE	0.5"-3"	CPVC	80	-	D-1784	CPVC	CPVC	SW	150	120	150	1	-
FIRE PROTECTION	ALL	PER NFPA 13 AND FIRE SPRINKLER DRAWINGS									200	2	2
FIRE SPRINKLER SERVICE BELOW GRADE	ALL	PER NFPA 13 AND FIRE SPRINKLER DRAWINGS									200	2	-
SANITARY WASTE AND VENT ABOVE GRADE	ALL	NH	SS	-	A74	CI	CI	DRNH	10 FT	50-180	10 FT	1	1,3

NOTES:
1. THE USE OF CELLULAR CORE PVC WASTE AND VENT PIPING IS STRICTLY PROHIBITED.
2. THE USE OF CPVC AND POLYBUTYLENE PIPING IS STRICTLY PROHIBITED.
3. SANITARY WASTE, VENT AND ROOF DRAIN PIPING LOCATED WITHIN RETURN AIR PLENUMS SHALL BE CAST IRON.

ABBREVIATIONS:

BS	- BELL AND SPIGOT	DWV	- DRAINAGE WASTE AND VENT	NH	- NO-HUB
CI	- CAST IRON	HDPE	- HIGH DENSITY POLYETHYLENE	SJ	- 95-5 TIN-ANTIMONY SOLDER JOINT
CS	- CARBON STEEL	MJ	- MECHANICAL JOINT	SS	- STANDARD STRENGTH / SERVICE WEIGHT
CW	- CONTINUOUS WELD	NG	- NEOPRENE GASKET	SW	- SOLVENT WELD
DI	- DUCTILE IRON				
DR	- DRAINAGE FITTING				

2 PARTIAL SECOND FLOOR PLUMBING IMPROVEMENT PLAN
1/8" = 1'-0"

3 PARTIAL SECOND FLOOR HVAC IMPROVEMENT PLAN
1/8" = 1'-0"

4 CEILING REGISTER DETAIL
NO SCALE

1 PARTIAL SECOND FLOOR MECHANICAL DEMOLITION PLAN
1/8" = 1'-0"

FIRE PROTECTION GENERAL NOTES:

GENERAL

1. MODIFY AND IMPROVE EXISTING FIRE SPRINKLER SYSTEM FOR SERVICE TO AREAS AFFECTED BY THIS PROJECT. PROVIDE ENGINEERING, FABRICATION, MATERIALS, AND EQUIPMENT NECESSARY FOR MODIFICATIONS TO EXISTING AUTOMATIC FIRE SPRINKLER SYSTEM TO PROVIDE FULL COVERAGE FOR ALL AREAS OF THE BUILDING.
2. ALL PERMITS, LICENSES, TAP FEES, INSPECTIONS, ENGINEERING FEES, ETC. REQUIRED FOR THIS WORK SHALL BE SECURED AND PAID FOR BY THE CONTRACTOR. CONTRACTOR SHALL ALSO PAY FOR ALL TAP FEES AND EQUIPMENT COSTS ASSOCIATED WITH THE FIRE SPRINKLER SYSTEM.
3. THE FIRE SPRINKLER SYSTEM DESIGN AND INSTALLATION SHALL COMPLY WITH NFPA 13, FACTORY MUTUAL, STATE AND LOCAL CODES AS ADOPTED BY THE AUTHORITIES HAVING JURISDICTION.
4. FIRE SPRINKLER WORK SHALL BE PERFORMED BY A QUALIFIED FIRE SPRINKLER CONTRACTOR WITH AT LEAST 5 YEARS OF INSTALLATION EXPERIENCE ON PROJECTS WITH FIRE PROTECTION WORK SIMILAR TO THAT REQUIRED FOR THE PROJECT.
5. THE FIRE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING HIS OWN FLOW READINGS FOR PURPOSES OF DESIGN.
6. SUBMIT DRAWINGS, CALCULATIONS, ETC. AS REQUIRED, TO LOCAL AUTHORITIES BEFORE PROCEEDING WITH INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL REQUIREMENTS OF LOCAL AUTHORITIES.

PRODUCTS

1. ALL SPRINKLER HEADS, VALVES, PIPING MATERIALS, SUPPORTS, ETC. SHALL BE U.L. LISTED. NO PLASTIC PIPING SHALL BE INSTALLED INSIDE BUILDING UNLESS ALLOWED BY CODE AND APPROVED BY OWNER.
2. UNLESS OTHERWISE APPROVED BY OWNER, SPRINKLER HEADS LOCATED IN GYPSUM AND LAY-IN CEILING AREAS SHALL BE CONCEALED TYPE WITH WHITE COVERPLATE. HEADS IN AREAS WITH EXPOSED STRUCTURE SHALL BE BRASS, UPRIGHT HEADS.

EXECUTION:

1. CENTER SPRINKLER HEADS IN CEILING TILES.
2. ALL PIPING SHALL BE HYDROSTATICALLY TESTED FOR A PERIOD OF NOT LESS THAN TWO HOURS AT A PRESSURE NOT LESS THAN 200 PSI. IF LEAKS APPEAR, LINES SHALL BE DRAINED AND REPAIRED AND TEST SHALL BE REPEATED IN FULL. NO PIPING SHALL BE CONCEALED OR RENDERED INACCESSIBLE BEFORE BEING PROPERLY TESTED AND APPROVED. TESTS SHALL BE PERFORMED IN THE PRESENCE OF AN INSPECTOR FROM THE AUTHORITIES HAVING JURISDICTION.
3. UPON COMPLETION OF WORK, CONTRACTOR SHALL SUBMIT CERTIFICATION THAT THE SYSTEM HAS BEEN TESTED IN ACCORDANCE WITH NFPA 13 AND THAT SYSTEM IS COMPLETE, FULLY OPERATIONAL, AND FREE OF DEFECTS.
4. SEAL PIPE PENETRATIONS THROUGH FIRE RATED PARTITIONS WITH HILTI ELASTOMERIC FIRE STOP SEALANT. INSTALL IN ACCORDANCE WITH FIRE STOPPING SEALANT MANUFACTURER'S DETAILS. EQUAL BY 3M AND STI.

PLUMBING SYMBOLS:

- SANITARY WASTE PIPING ABOVE SLAB
- SANITARY WASTE PIPING BELOW SLAB
- DOMESTIC COLD WATER PIPING
- DOMESTIC HOT WATER PIPING
- SHUT-OFF VALVE
- TEE / ELBOW DOWN WITH VALVE IN VERTICAL PIPE
- PLUMBING VENT PIPING

HVAC SYMBOLS:

- FLEXIBLE DUCTWORK
- CEILING RETURN/EXHAUST GRILLE
- CEILING SUPPLY DIFFUSER
- LINEAR SLOT DIFFUSER
- T — THERMOSTAT
- 14x18 — DUCTWORK WITH DAMPER (WIDTH/HEIGHT)
- FLEXIBLE CONNECTION
- ST 100 — DIFFUSER TYPE, AND CFM
- RECTANGULAR TO ROUND TAKE-OFF WITH DAMPER
- CWS — CONDENSER WATER SUPPLY
- CWR — CONDENSER WATER RETURN

SPECIAL NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS AND FIELD VERIFY EXACT SCOPE OF DEMOLITION FOR MECHANICAL AND PLUMBING SYSTEMS TO ACCOMMODATE OVERALL SCOPE OF PROJECT.
2. FIELD VERIFY EXISTING CONDITIONS. CONSULT WITH ENGINEER FOR ADJUSTMENTS TO DRAWINGS AS REQUIRED.
3. FIELD VERIFY SPACE AVAILABLE FOR NEW PIPING, DUCTWORK, EQUIPMENT, ETC., AND ADJUST EXACTLY LAYOUTS, ROUTINGS, ETC. AS REQUIRED.
4. COORDINATE FOR REMOVAL AND REPAIR OF EXISTING FINISHES AND GENERAL CONSTRUCTION AS REQUIRED TO ACOMMODATE INSTALLATION OF NEW SYSTEMS AND COMPONENTS.
5. CONTRACTOR SHALL CONSULT WITH LOCAL PLAN REVIEWER AND OR MECHANICAL INSPECTOR FOR APPROVAL OF FIRE AND FIRE/SMOKE DAMPERS AS LOCATED ON PLANS. CONTACT ENGINEER FOR RESOLUTION OF CONFLICTS.

KEYNOTES:

1. CONNECT NEW 4" WASTE TO EXISTING AT FIRST FLOOR. FIELD VERIFY EXACT LOCATION AND REQUIREMENTS.
2. 2" WASTE UP TO BATHTUB.
3. 2" WASTE UP TO LAVATORY.
4. 4" WASTE UP TO WATER CLOSET.
5. 0.5" HOT AND COLD WATER DOWN TO BATHTUB.
6. 1.5" VENT, 0.5" HOT AND COLD WATER DOWN TO LAVATORY.
7. 0.75" COLD WATER DOWN, TEE 0.5" COLD WATER TO EACH WATER CLOSET.
8. 0.5" COLD WATER DOWN TO WATER CLOSET.
9. CONNECT 0.75" HOT AND COLD WATER TO EXISTING. FIELD VERIFY EXACT LOCATION AND REQUIREMENTS.
10. 10"ø SUPPLY DUCT TRANSITION AND CONNECT TO HORIZONTAL HEAT PUMP. FIELD COORDINATE EXACT ROUTING AND CONNECTION REQUIREMENTS. FIELD VERIFY EXACT INSTALLATION FOR HEAT PUMP TO ACCOMMODATE EXISTING CONDITIONS.
11. 12x12 RETURN AIR DUCT TO HORIZONTAL HEAT PUMP. FIELD COORDINATE EXACT ROUTING AND CONNECTION REQUIREMENTS.
12. 4"ø OUTSIDE AIR DUCT CONNECTION TO RETURN DUCT.
13. CONNECT NEW 2" VENT TO EXISTING 2" VENT STACK IN EXISTING CHASE. FIELD VERIFY EXACT LOCATION AND REQUIREMENTS.
14. CONNECT NEW 0.75" CONDENSER WATER SUPPLY AND RETURN TO EXISTING CONDENSER WATER SUPPLY AND RETURN. PROVIDE FULL-SIZE CONDENSATE DRAIN PIPING FROM HEAT PUMP TO DISCHARGE AT TAILPIECE OF CLOSET LAVATORY. OMITTED FROM DRAWING FROM DRAWING FOR CLARITY.
15. ROUTE 8" EXHAUST DUCT TO DISCHARGE AT WALL CAP AT EXTERIOR WALL. FIELD VERIFY ROUTING AND REQUIREMENTS PRIOR TO CONSTRUCTION MAINTAIN MINIMUM 10'-0" SEPARATION BETWEEN DISCHARGE AND ALL FRESH AIR INTAKES.

MECHANICAL GENERAL NOTES:

GENERAL

1. COLVIN JONES DAVIS LLC, BEING THE AUTHOR OF THESE CONSTRUCTION DOCUMENTS RESERVES THE RIGHT OF FINAL INTERPRETATION AS TO THEIR INTENT AND MEANING. ANY ADDITIONAL WORK OR COSTS RESULTING FROM THE CONTRACTORS OWN INTERPRETATION AS TO THE INTENT OR MEANING WITHOUT CONSULTATION WITH COLVIN JONES DAVIS LLC SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO COST TO OWNER OR A/E.
2. THE INTENT OF THE WORK INDICATED ON THESE CONSTRUCTION DOCUMENTS IS TO PROVIDE A FULLY FUNCTIONING SYSTEM IN COMPLETE WORKING ORDER. IT SHALL BE THE RESPONSIBILITY OF THE CONTACTOR AND THE CONTRACTORS SUPPLIERS TO INCLUDE ALL ACCESSORIES, COMPONENTS, PARTS, ETC. THAT MAY NOT BE INDICATED ON THESE CONSTRUCTION DOCUMENTS TO PROVIDE SYSTEMS AND EQUIPMENT THAT OPERATE SATISFACTORILY AS DESIGNED AND INTENDED.
3. ALL MECHANICAL WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS IN ACCORDANCE WITH THE 2010 MAINE STATE BUILDING, PLUMBING, AND MECHANICAL CODES AS ADOPTED BY THE AUTHORITIES HAVING JURISDICTION.
4. PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO CIVIL, STRUCTURAL AND ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS FOR DIMENSIONS. FIELD VERIFY DIMENSIONS.
5. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONSTRUCTION PRIOR TO SUBMITTING HIS BID. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS.
6. PIPING AND DUCTWORK LAYOUTS ARE DIAGRAMMATIC. FIELD COORDINATE EXACT LOCATIONS AND ROUTINGS WITH STRUCTURE, PIPING, DUCTWORK, ETC. FINAL RESULT SHALL BE EQUIVALENT TO THAT INDICATED ON DRAWINGS.
7. COOPERATE CLOSELY WITH ALL OTHER TRADES TO EXPEDITE CONSTRUCTION AND AVOID INTERFERENCES AND CONFLICTS. BEFORE ANY PIPING, DUCTWORK, CONDUIT, ETC. IS INSTALLED, IT SHALL BE COORDINATED CAREFULLY BETWEEN ALL TRADES.
8. MAINTAIN ALL CLEARANCES REQUIRED BY MECHANICAL AND ELECTRICAL EQUIPMENT. COORDINATE WITH PLUMBING AND HVAC CONTRACTORS TO MAINTAIN ALL CLEARANCES REQUIRED FOR EQUIPMENT. DO NOT ROUTE PIPING, DUCTWORK, ETC. ABOVE ELECTRICAL PANELS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING COSTS TO CUT, PATCH AND REPAIR EXISTING WALL, FLOOR AND CEILING CONSTRUCTION AS REQUIRED TO INSTALL NEW PLUMBING FIXTURES, PIPING, ETC. ARE INCLUDED IN THE BID PRICE.
12. THE CONTRACTOR SHALL SUBMIT A MINIMUM OF SIX (6) COPIES ON ALL FIXTURES AND EQUIPMENT FURNISHED UNDER THIS CONTRACT.
13. THE CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, ACCESSORIES, AND MATERIAL FURNISHED BY HIM FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE AGAINST ALL DEFECTS.

PRODUCTS:

1. ALL SHUTOFF VALVES ON DOMESTIC WATER SHALL BE BRONZE FULL PORT BALL VALVE 600 PSI-WOG WITH PACKING NUT, TEFLON SEATS, BRONZE BALL, SILICON BRONZE STEM INSULATED HANDLE, AND SCREWED OR SOLDER ENDS.
2. ALL DUCTWORK SHALL BE FABRICATED OF G90 GALVANIZED STEEL AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS, MANUAL 1Sd. ALL SUPPLY AIR DUCT PRESSURE CLASSES SHALL BE THE SAME AS THE EXTERNAL STATIC PRESSURE (ESP) OF THE EQUIPMENT SUPPLYING THE DUCT. THE EQUIPMENT ESP SHALL BE THE PRESSURE CLASS FOR THE ENTIRE SUPPLY DUCT SYSTEMS.
3. EQUIVALENT WATER SOURCE HEAT PUMPS ALLOWED WITH APPROVAL ONLY.
4. EQUIVALENT PLUMBING FIXTURES ALLOWED WITH PRIOR APPROVAL ONLY.

EXECUTION

1. INSULATE ALL ABOVE GRADE DOMESTIC WATER AND CONDENSATE DRAIN PIPING WITH ARMACELL 1/2" THICK AP/ARMAFLEX FLEXIBLE ELASTOMERIC THERMAL PIPE INSULATION.
2. DOMESTIC WATER PIPING SHALL BE TYPE L COPPER WITH SOLDER JOINST OR CROSS-LINKED POLYETHYLENE WITH MECHANICAL JOINTS.
3. WASTE AND VENT PIPING SHALL BE HUBLESS CAST IRON WITH NO-HUB MECHANICAL JOINTS.
4. PROVIDE SIOUX CHIEF WATER HAMMER ARRESTERS ON ALL PLUMBING FIXTURES SIZED IN ACCORDANCE WITH PLUMBING AND DRAINAGE INSTITUTE STANDARD P.D.I. WH201. EQUIVALENT BY JONESPEC, J.R. SMITH, OR WADE.
5. SEAL PENETRATIONS THROUGH FIRE RATED PARTITIONS WITH HILTI ELASTOMERIC FIRE STOP SEALANT. INSTALL IN ACCORDANCE WITH FIRE STOPPING SEALANT MANUFACTURER'S DETAILS. EQUAL BY 3M AND STI.
6. SEAL ALL DUCTWORK IN ACCORDANCE WITH THE LATEST SMACNA METAL AND FLEXIBLE DUCT CONSTRUCTION STANDARDS MANUAL. AT A MINIMUM, LOW STATIC PRESSURE DUCTS SHALL BE SEALED WITH WATER, SOLVENT OR SILICONE BASED SEALANT IN ACCORDANCE WITH SMACNA DUCT SEAL CLASS C. THE USE OF DUCT TAPE IS STRICTLY PROHIBITED.
7. THERMOSTATS, SENSORS, AND ALL CONTROL WIRING SHALL BE PROVIDED BY HVAC CONTRACTOR. ROUGH-IN SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR. PROVIDE ALL THERMOSTATS WITH LABEL INDICATING AREA SERVED.

Colvin Jones Davis LLC
Engineering | Energy | Innovation
2101 West Chesterfield Boulevard, Suite B-105A, Springfield, MO 65807
P: 417.877.1700 F: 417.877.1701 www.colvinjonesdavis.com

Special notice: Drawings prepared by Colvin Jones Davis LLC are instruments of service for use solely with respect to this project. Colvin Jones Davis LLC does not convey ownership of the drawings to others but retains all ownership and copyright in the drawings. These drawings may not be reused or used in whole or in part for any other purpose without the express consent of the Colvin Jones Davis LLC. Whosoever changes the design without prior written approval from Colvin Jones Davis LLC, does so at their own risk and assumes full responsibility for any damages, liabilities or costs resulting directly or indirectly from such changes to the fullest extent of the law.

REVISIONS

MECHANICAL PLANS

HAMPTON INN RENOVATION
209 FORE ST, PORTLAND, MAINE 04101

GERRI A KIELHOFNER, AIA ARCHITECT
319 N MAIN ST, SUITE 200, SPRINGFIELD, MISSOURI, 65806 T: 417-865-6107

DRAWN BY	CLB
CHECKED BY	AKD
ISSUE DATE	02-27-2015
PROJECT	15012JRHR

STATE OF MAINE
RYAN S. JONES
NUMBER
PE-13799
PROFESSIONAL ENGINEER
02-27-15
RYAN S. JONES - ENGINEER
PE-13799

M1.1